

~~1. A contact pesticidal composition for the control of beetles in containers or cartons of stored products comprising, in admixture with an acceptable carrier, at least one plant essential oil compound or derivative thereof.~~

3. The pesticidal composition of claim 1 wherein the plant essential oil compound or derivative thereof is selected from the group consisting of aldehyde C16 (pure), α -terpineol, amyl cinnamic aldehyde, amyl salicylate, anisic aldehyde, benzyl alcohol, benzyl acetate, cinnamaldehyde, cinnamic alcohol, carvacrol, carveol, citral, citronellal, citronellol, p-cymene, diethyl phthalate, dimethyl salicylate, dipropylene glycol, eucalyptol (cineole) eugenol, iso-eugenol, galaxolide, geraniol, guaiacol, ionone, menthol, methyl anthranilate, methyl ionone, methyl salicylate, α -phellandrene, pennyroyal oil perillaldehyde, 1- or 2-phenyl ethyl alcohol, 1- or 2-phenyl ethyl propionate, piperonal, piperonyl acetate, piperonyl alcohol, D-pulegone, terpinen-4-ol, terpinyl acetate, 4-tert butylcyclohexyl acetate, thyme oil, thymol, metabolites of trans-anethole, vanillin, and ethyl vanillin.

4. A fumigant pesticidal composition for the control of beetles in containers or cartons of stored products comprising, in admixture with an acceptable carrier, at least one plant essential oil compound or derivative thereof.

5. The pesticidal composition of claim 4, wherein the plant essential oil compound or derivative thereof, comprises a monocyclic, carbocyclic ring structure having six-members and substituted by at least one oxygenated or hydroxyl functional moiety.

7. A method for controlling beetles in stored products, the method comprising applying to the locus where control is desired a pesticidally-effective amount of the composition of claim 1.

Step 3

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